No.	Commentator	Date	Comment	Response
01	Peer Review:	07/22/02	1. Section 1.3: Description of the basin	RWQCB staff agree-Figure 1 is inserted
	Edward D.		is very difficult to follow. A good	
	Schroeder		map that is consistent with Table 1	
	University of		would be very helpful	
	California, Davis			
			2. Units need to be consistent through	RWQCB staff concur and changes are made as requested
			out the document and equation should	
			be numbered	
			3. Section1.3.5: Depth to groundwater	Depth to groundwater and nitrate concentration varies greatly in the
			and nitrate concentration in	watershed. It's not appropriate to go into detail about change in
			groundwater were not described.	groundwater depth in this section. General terms are preferred to be
				used. More detail of these issues are discussed in TSD
			4. Section 2.2: Beneficial uses are	Mugu Lagoon is not listed for WARM beneficial used. A more
			assigned but not supported. Mugu	detailed table (Table 9) was used to clearly define the primary use
			Lagoon and Calleguas Creek are both	protected.
			listed as having the WARM beneficial	
			use. Most coastal water are relatively	
			cold	
			5. DO objective (7mg/L) is not	The max DO concentration was displayed Table 4-3 instead of the

No.	Commentator	Date	Comment	Response
			reasonable base on the data in Table	mean value. The correct mean DO concentration should be 7.26
			4-3 (mean DO concentration:	mg/L. Therefore, the mean DO concentration was correctly used in
			8.3mg/L) of the Technical Support	the staff report
			Documents (TSD)	
			6. Section 2.1.2.1. What is meant by	A table of data on ammonia for reaches in the Calleguas Creek
			typical pH and temperature ranges?	Watershed was inserted. These data were compared to the ammonia
			There needs to be a much more	objective in the Basin Plan after adjusting for pH and temperature.
			explicit explanation of how the 3.8	
			mg/L value was developed. It's	
			opaque to use range of values	
			7. Section 2.1.2.1: Are ambient stream	Upstream of the treatment plants and in Revolon Slough, where there
			concentrations above the objectives at	are no POTW discharges, ammonia objectives were not exceeded.
			present? Are the ambient stream	Samples collected under CCCS and TOCS program exceeded
			concentrations above the objective	ammonia objectives in reaches below POTWs.
			below the POTWs?	
			8. Section 2.1.2.2: "nitrogen is listed as	The term "nitrogen" was replaced by "nitrogen compounds"
			impairing aquatic life beneficial	
			uses." It is not clear that oxidized	
			nitrogen fit this description	

No.	Commentator	Date	Comment	Response
			9. Section 2.3.2.3: Staff documented the	The second paragraph was modified to incorporate the request. (refer
			present of algae. How much? How	to page 36, Staff Report)
			often? and whether the algae is a real	
			problem or not	
			10. Section 2.2: The way in which the	A 95 <sup>th</sup> percentile pH value was calculated from all of the pH data.
			percentiles are defined should be	Use of this percentile is consistent with State Board Policy for
			described. Are the percentiles based	Implementation of Toxics Standards for Inland Surface Waters,
			on available records? How extensive	Enclosed Bays, and Estuaries of California (SWRCB, 2000a). The
			are the records? Are the pH and	chronic criteria were calculated based on the average pH and
			temperature records for reaches below	temperature for the reaches using data for which both pH and
			the POTWs or are they averaged for	temperature were available.
			the creek?	
			11. Section 2.3.1, Table 9: Request to	Data are not available for all POTWs
			include the nitrification and	
			denitrification capacity of the plants	
			12. Section 2.3.1: Why were median and	The use of median concentration accounts for the effect of data
			not average concentration used?	fluctuations from the POTWs that only nitrify their effluent.
			13. Section 2.3.2.2: An explanation for	RWQCB staff agree and a short paragraph is used to replace the term
			standard parameters is needed	"standard parameter"

No.	Commentator	Date	Comment	Response
			14. Section 2.3.2.2: The paragraph	Revisions to Staff Report
			switches from oxidized nitrogen to	
			ammonia	
			15. Section 2.3.2.2: The paragraph	Revisions to Staff Report
			switches from oxidized nitrogen to	
			ammonia	
			16. Section 2.4: The model used is a	Revisions to Staff Report
			cascade of stirred tanks not a flug-	
			flow model	
			17. Section 2.3: The expression for	Section 2.3.4 is added to address the conversion of organic nitrogen to
			contaminant concentrations does not	ammonia. The amount of ammonia coming from the nitrogen
			include the conversion term(s). The	conversion was estimated by using the conversion rate of 1 per day
			conversion terms drive the change in	assumed in the model.
			constituent concentration and without	
			these term the models will not work.	
			18. Section 2.4: Both the flow and	The steady state assumption used for the flow and the constituent
			constituents models are steady state.	models was documented in the first paragraph of section 2.4
			Therefore, steady state should be	
			recognized.	

No.	Commentator	Date	Comment	Response
_			19. Section 2.4.2: The discussion of	Definition of 30Q3 and 7Q10 were inserted as requested. The 30Q3 is
			critical conditions is not explained	equal to the 15-20 <sup>th</sup> percentile mean daily flow in the watershed. This
			well enough to assess correctness.	mean that 80% of the time, the flow component of the margin of
			Definition of 30Q3 and 7Q10 need to	safety is greater than estimated and 20% of the time it is lower. To
			be given and an explanation why	quantify the flow component of the margin of safety during the 20%
			30Q3 was chosen	of the time that the flows are lower than the baseline, a number of
				flows representing percentile below 20 were selected, and the margin
				of safety under these flow regimes was calculated.
			20. Section2.4.3: The modeling	Yes, it was. The model was calibrated against the critical condition
			scenarios used seem appropriate. As	and monitoring data to verify its range of accuracy. Contaminant
			always with the models, the question	concentration results from modeling generally agreed with analytical
			is whether the modeling was done	results reported in Calleguas Creek Characterization Study within
			appropriately.	20%
			21. Section 4.5.1, third paragraph: The	A new paragraph was inserted which described the nitrification and
			paragraph reflects an incomplete	denitrification process into more details
			understanding of the nitrification	
			process.	
02	Larry Walker	09/17/02	Ammonia:	
	Associates		➤ The acute and chronic ammonia	> The acute and chronic ammonia targets are recalculated based on

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			target numbers in the TSD and Staff	Basin Plan Amendment – Ammonia Objectives in Inland Surface
			Report do not match. It is not clear	Waters (Section 5. Translation of Objectives into Effluent Limits,
			where the deviation comes from	page 10). See the revised Staff Report
			➤ The TSD document proposed that	> WER was addressed very early in the Development of Numeric
			the ammonia targets include a	Targets section. The estimated WER value of 2.9 results from
			placeholder for an adjustment to the	prediction from only one specie. Additional species, such as
			1999 numbers due to a Water Effect	sensitive fish species will also need to be evaluated and possibly
			Ratio (WER). The Regional Board	tested to determine the ultimate WER and SSO. WER value,
			did not explicitly include a	therefore, not recommended to be listed
			placeholder for a WER value, but	
			allowed for a WER study to be part	
			of the implementation plan.	
			> The Regional Board used their	> Since there is significant uncertainty as to whether the TMDLs
			chronic target number and applied	will result in attainment of the standards addressing algae and
			an addition 10% MOS to obtain the	perhaps other listed stressors associated with nutrient loads, 10
			effluent limits. TSD sets the	percent MOS should be included.
			effluent limits equal to the target	
			concentrations. TSD's MOS came	
			from the assumption that the	

No.	Commentator	Date	Comment	Response
			POTWs would have to meet the	
			instream targets	
			2. Oxidized Nitrogen	
			> The Regional Board document	> Separated WLAs are set for Nitrite-N, Nitrate-N, and Nitrite-N +
			includes separate effluent limits for	Nitrate-N as required in the Basin Plan.
			Nitrite-N and Nitrate-N, and WLAs	
			for Nitrite-N, Nitrate-N, and Nitrite-	
			N + Nitrate-N. TSD only proposed	
			a total Nitrite-N + Nitrate-N	
			> The Regional Board calculated	> The WLAs are calculated based on the design capacity to
			WLAs in lb/day based on the design	eliminate the variable discharge flow from the POTWs.
			capacity of each POTW. TSD	
			expressed WLA in term of the	
			effluent limit multiplied by variable	
			discharge flow from the POTWs	
			> The Regional Board set oxidized	> RWQCB staff agree – See revised Staff Report
			nitrogen load allocations for	
			agriculture on Revolon Slough and	
			Arroyo Las Posas only. TSD	

No.	Commentator	Date	Comment	Response
			imposed load allocations for	
			agriculture in each reach of the	
			watershed.	
			> The Regional Board calculated a	> The load allocations for Revolon Slough and Arroyo Las Posas are
			load allocation on unknown flow for	calculated based on the estimated flows from agriculture in
			Revolon Slough and Arroyo Las	Revolon Slough and other agricultural drains in the lower
			Posas. TSD's load allocations were	Calleguas watershed (refer to the model in TSD)
			set equal to the target concentration	
			of 10mg/L Nitrite-N + Nitrate-N	
			> The Regional Board is allowing four	> RWQCB staff maintain that the proposed four-year period for
			years (from the effective date of the	construction is appropriate. The proposed schedule is based on
			TMDL) to construct the necessary	information provided by the POTWs and on estimates in the
			denitrification facilities to achieve	Technical Support Document in which the planning tasks
			compliance with oxidized nitrogen	(planning, CEQA, finance, and design) are assumed to be
			limits. TSD estimated seven years	conducted concurrently and take two years. The construction of
			for construction of facilities.	capital improvements is assumed to follow the planning tasks and
				is also scheduled for two years
			➤ The Regional board is giving	➤ RWQCB staff agree – See revised Staff Report
			POTWs interim concentration limits	

No.	Commentator	Date	Comment	Response
			based on median effluent	
			concentrations. LWA requested that	
			the limits should be based on 99 <sup>th</sup>	
			and 95 <sup>th</sup> percentile for the maximum	
			daily and average monthly according	
			to EPA TSD	
			3. Algae and Dissolved Oxygen	
			<ul> <li>No numeric targets or associated</li> </ul>	> This TMDL establishes additional studies to determine if the
			limits are included in the TMDL.	nitrogen compound targets are sufficient to eliminate the related
			TSD cited a maximum algal biomass	effect impairments, such as algae and DO, in Calleguas Creek. If
			preliminary target of 150 mg/m <sup>2</sup>	the proposed targets do not eliminate related effect impairments,
			chlorophyll a, based on literature.	the additional studies will provide data to support development of
				a site-specific objective for nitrogen in Calleguas Creek for
				consideration by the Regional Board.
03	EPA	10/04/02	1. TMDLs must more clearly address	The staff report is revised to include a table which details the
			each 303(d) listed segments and listed	relationship in the current 303(d) list, consent decree, and this TMDL.
			pollutants	
			2. TMDLs must meet existing water	The water quality standards for listed pollutants include numeric
			quality standards for all listed	objectives for ammonia, nitrite, nitrate, nitrate+nitrite, and narrative

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			pollutants.	standards for algae and organic enrichment. The TMDL is structured
				to meet all existing standards for pollutants with numeric objectives.
				The TMDLs represent a significant reduction in nitrogen compounds
				from POTWs and nonpoint sources such as agriculture. Regional
				Board staff assess that such reductions in nitrogen compound loading
				will lead to reductions in instream algae and organic enrichment
				concentrations that are related to nitrogen compound concentrations.
				The TMDL provides special studies and watershed monitoring to
				confirm that nitrogen reductions will effect attainment of applicable
				narrative standards for algae and DO. The TMDL also provides a
				reevaluation to revise the WLAs if the nitrogen reductions do not
				result in attainment of water quality standards for algae and organic
				enrichment
			3. TMDL must address all major	The TMDL addresses all POTWs and the major nonpoint sources,
			sources.	including agricultural sources. Regional Board staff assess that these
				sources will be sufficient to implement the existing water quality
				standards. However, if the special studies indicate that the source
				analysis is not complete, then additional studies will be available to
				base revised load allocations.

No.	Commentator	Date	Comment	Response
			4. Margin of Safety	Because the TMDL analysis includes WLAs based on critical
				conditions of low assimilative capacity, the 10% explicit MOS is
				considered appropriate.
			5. Critical conditions	Dry weather conditions are assessed to be critical conditions because
				the flow rate and assimilative capacity are much lower than during
				wet weather events. The TSD provides the data to support this
				assessment.
			6. Future Growth	The WLAs are concentration based. For illustrative purposes, the
				mass based WLAs are provided to support RB Staff's contention that
				reduction in nitrogen compound loading will attain the water quality
				standards.
			7. The Regional Board should more	RWQCB staff agree – See revised Staff Report
			clearly explain the correlation among	
			the 303(d)-listed segments, consent	
			decree segments and the TMDL	
			segments.	
			8. Page 7 mentions limited data about	The purpose of this section is to show that further studies should be
			Mugu Lagoon, and suggests that part	done to demonstrate the related nutrient effects such as DO and algae
			of the TMDLs won't be developed	growth in Calleguas creek including Mugu Lagoon. As Mugu Lagoon

No.	Commentator	Date	Comment	Response
			until the implementation phase. The	is listed on the 303(d) list of impaired water bodies, it is covered by
			Regional Board must be clear whether	this TMDL.
			the Mugu Lagoon is covered by these	
			TMDLs	
			9. In the proposed 2002 303(d) list	As stated in sections 1.1 and 1.2 of the Staff Report, this TMDL is
			(April 2002), nitrate and/or nitrite in	based on 1998 California 303(d) list.
			Calleguas Creek R4, R6, R9A and	
			R10 are new additions to the 1998	
			303(d) list. The Regional Board	
			needs to clarify whether these	
			waterbody/pollutant combinations are	
			included in these TMDLs	
			10. Clarify that the specific allocations	RWQCB staff agree – See section 2.5.1 of the revised Staff Report
			are set in terms of nitrogen	
			compounds but are set at levels	
			sufficient to result in attainment of	
			related water quality standards	
			addressing algae and other related	
			stressors included on the 303(d) list.	

No.	Commentator	Date	Comment	Response
			Please clarify that the TMDLs address	
			all pollutants listed on the 303(d) list	
			and the consent decree.	
			11. The Basin Plan Amendment on page	RWQCB staff agree – The Staff Report is revised to reflect these
			6 states, "Numeric targets to address	comments
			narrative objectives required to	
			protect warm freshwater and wildlife	
			habitat will be developed during the	
			implementation period of this	
			TMDL." Please clarify this language	
			to indicate that the targets developed	
			to address the narrative objectives are	
			believed to be sufficient to implement	
			these narrative objectives but may be	
			revisited and revised based on the	
			results of monitoring and studies	
			conducted pursuant to the	
			implementation plan.	
			12. Clarify the basis for the pH target.	RWQCB staff agree – See the revised Staff Report

No.	Commentator	Date	Comment	Response
			13. Page 59 indicates the model was	RWQCB staff agree – See the revised Staff Report
			used to estimate the effects of load	
			reductions on algae and DO. Please	
			discuss the model and its application	
			for this purpose in greater detail.	
			14. To the extent that any significant	Nutrient loads from sources are not addressed in this TMDL will be
			nonpoint sources are not addressed by	verified through special studies during the implementation.
			the draft TMDL, load allocations	
			should be established for them in the	
			final TMDL decision	
			15. Please clarify that urban stormwater	RWQCB staff agree – See the revised Staff Report, section 2.3.1.2
			regulated under the NPDES program	
			is a point source, and also clarify the	
			waste load allocation for this source if	
			it is a major source as implied on p.	
			47.	
			16. Page 50 indicates that groundwater	The implementation plan addresses this source with special studies to
			is a significant source in two areas,	assess if groundwater discharge is responsible for the elevation of the

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			but there is no allocation for it.	surface water concentrations. The recommended studies should also
			Please clarify the load allocations to	quantify the contributions of septic, winter urban-runoff, agriculture,
			groundwater or explain why they are	and waste treatment discharge sources. See revised Staff Report,
			unwarranted.	section 2.3.2.3
			17. Please clarify how the allocations	Section 2.5.1 of the Staff Report was revised to address the issues.
			were done. It is not clear whether (1)	For agriculture runoff, the LAs are concentration based.
			there is a calculation of loading	
			capacity and the LC was divided into	
			allocations, (2) each source receives	
			an allocation designed to meet the	
			concentration target for its receiving	
			water location, or (3) some other	
			method was used. Also, please	
			clarify how the LAs for agricultural	
			runoff are calculated.	
			18. Page 68 table 21 indicates that there	Section 2.5.2 of the Staff Report was changed to address the issue.
			is a LA of 12.8 lbs/day for ammonia-	The load allocations for Revolon Slough and Arroyo Las Posas are
			N. This LA is mentioned in the	calculated based on the estimated flows from agricultural in Revolon
			source analysis section of the TMDL	Slough and other agricultural drains in the lower Calleguas watershed

No.	Commentator	Date	Comment	Response
			but was not discussed in the LA	in the TSD. Load allocations are concentration based
			section. Please clarify this allocation.	
			19 It is unclear how the 10% explicit	RWQCB staff agree – See the revised Staff Report
			MOS was applied. Page 66 indicates	
			the "instream" acute and chronic	
			criteria were reduced 10% from the	
			original criteria. Page 62 indicates	
			the effluent limits include an explicit	
			MOS of 10%. Please clarify whether	
			these statements mean the same thing	
			20. The Regional Board needs to be	The loading is based on the average flow in the mass balance model
			clear whether the mass balance model	(See section 2.3.1.4)
			(linkage analysis) loadings is based	
			on the design flow or the average	
			flow	
			21. Basin Plan Amendment - The	Waste load and load allocations are concentration based. For
			Regional Board must clarify whether	illustrative purposes, the mass based allocations are provided to
			the TMDLs and allocations are	indicate the level of mass reduction required by this TMDL - See the
			concentration based or mass based	revised Staff Report

No.	Commentator	Date	Comment	Response
			22. The statement on BPA page 7 that	RWQCB staff agree – See the revised Staff Report
			BMPs are proposed to meet LAs is	
			misleading. EPA suggests the	
			Regional Board state that there is	
			numeric LAs and that in the	
			implementation plan, BMPs are	
			proposed to meet them.	
04	City of	10/07/02	1. An implementation schedule is	The comment from City of Thousand Oaks on this issue does not fully
	Thousand Oaks		required to meet the ammonia	reflect Regional Board Resolution 97-10 and the Order 97-123.
			objective	Section 1, 2 and 3 of Resolution 97-10 provided:
				"1) In order to provide time needed for Calleguas Creek POTWs to
				complete CCCS and to identify viable alternatives to limits that
				are based upon water quality objectives in the Basin Plan
				provided that these POTWs meet conditions set forth in
				paragraph (2) below.
				2)The conditions that Calleguas Creek POTWs must meet in order
				to be eligible for the relief from compliance with ammonia,
				nitrite, nitrate limits are as follows:

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				c) POTWS must decide, before June 13, 2002, how they will
				achieve compliance with WQOs for ammonia, nitrite, and
				nitrate. Strategies for achieving compliance, such as will be
				subject to approval from the Regional Board, and must be
				documented in the permit revisions by June 13, 2002.
				3) In the event that these POTWs do not meet conditions in
				paragraph (2) above, more stringent limits and time schedule
				immediately become operative.
				The city of Thousand Oaks also ignores important parts such as item
				ii ) of section 1, and foot note 6 of section 2 in the Revised Permit,
				Order No. 97-123:
				Item ii):
				"Based upon theses site specific WQOs, develop
				recommendations for cost-effective solution to attain these
				objectives, which may include: wastewater treatment plant
				upgrades, alternative treatment technologies, or alternative
				management strategies.
				Agreement to alternatives to meet the ammonia objective, such as
				a site specific objective, must be incorporated into the permit by

No.	Commentator	Date	Comment	Response
				June 13, 2002."
				Footnote #6:
				"Relief from compliance with this limitation is subject to
				condition set forth in Regional Board Resolution No. 97-10"
				Furthermore, in Status Report on POTWs' progress toward
				compliance with inland surface water ammonia objectives to protect
				aquatic life on May 31, 2001 (Regional Board Hearing, Item 7),
				Regional Board staff had recommended that since POTWs were
				aware of the compliance deadline in 1994, and were given up to 8
				years to come into compliance, the deadline of June 13, 2002 would
				not be changed
				This TMDL acknowledge that as POTWs implement nitrification
				processes to comply with the ammonia objective, additional oxidized
				nitrogen will be generated in the POTW effluent. Several of the
				POTWs in the Calleguas Creek watershed will require additional time
				to meet the oxidized nitrogen (nitrate, nitrite, and nitrate + nitrite)
				WLAs. To allow time for completion of denitrification facilities
				which are integral to this TMDL, the amendment to the Basin Plan

No.	Commentator	Date	Comment	Response
				that includes this TMDL allows for higher interim limits.
			2. The ammonia WLA appears to be	The WLAs are recalculated based on Resolution 02-011 – Ammonia
			based upon the incorrect objective	Objectives in Inland Surface Waters (Section 5. Translation of
				Objectives into Effluent Limits, page 10). The maximum daily
				effluent limitation (MDEL) and average monthly effluent limitation
				(AMEL) were calculated by multiplying the lowest long-term average
				discharge condition (LTA <sub>min</sub> ) with the MDEL and AMEL multipliers,
				respectively. The MDEL and AMEL multipliers can be found in
				Table 3-7 of the amendment using the coefficient of variation and
				monthly sampling frequency of ammonia in the effluent.
			3. The TMDL must include an	Paragraph 2 of Section 2.2 was changed to clearly stated that a SSO
			Ammonia WER now, or explicitly	based on a WER for ammonia would be implemented as a Basin Plan
			provide application of a final site	Amendment that would amend both the Basin Plan and this TMDL.
			specific WER	
			4. The interim oxidized nitrogen limits	The monthly average and daily maximum interim limits are
			will result immediate no-	recalculated and based on the 95 <sup>th</sup> and 99 <sup>th</sup> percentiles of effluent
			compliance. The interim oxidized	performance data reported in the Calleguas Creek Characterization
			nitrogen limitation should either be	Study
			deleted from the TMDL altogether,	

No.	Commentator	Date	Comment	Response
			or replaced with limitations	
			calculated based upon the projected	
			maximum effluent concentration.	
			5. The lack of resolution of algae	Since there are insufficient data available to determine the limiting
			issues create continuing uncertainty	factor including nitrogen that would directly affect the algae growth in
			for POTWs. Algae studies should	the watershed, additional studies are required to determine if the
			commence after the current spate of	nitrogen compound targets are sufficient to eliminate the related
			POTW improvements are completed	effects impairments, such as algae, in Calleguas Creek. If the
			and operational. The POTWs will	proposed targets do not eliminate related effect impairments, the
			have removed their share of the	additional studies will provide data to support development of a site-
			nitrogen contribution to the system.	specific objective for nitrogen in Calleguas Creek for consideration by
				the Regional Board. Paragraph 4 of Section 2.2 was change to
				address the issue
			6. Aquatic plant growth is normal and	Regional Board recognize that there are several factors causing algae
			naturally occurring in aquatic	growth including nutrient, light availability, temperature, flow levels,
			systems, especially in warm water	growing surface, bedrock type and elevation, control levels of
			streams. The Staff Report should	macrophytes, periphyton, and phytoplankton in waters. However, the
			acknowledge this fact. (page 10)	most likely method of controlling algae may be reducing nutrient
				(nitrogen and phosphorus)

No.	Commentator	Date	Comment	Response
			7. What are the future regulatory	As stated in the draft TMDL, these reach designations provide greater
			implications, if any, of the stream	detail than the designations in the current Basin Plan, and are
			reach designations used for purposes	developed for purposes of this TMDL. The draft TMDL also stated
			of the TMDL? (page 21)	that the reach revision may provide an appropriate analytical tool for
				future analyses in the watershed. At this time, the reach revisions are
				not regulatory and do not alter water quality objectives for the reaches
				in the existing Basin Plan.
			8. The Staff Report appears to be	The Basin Plan provides that surface water shall not exceed 10 mg/L
			applying the 10 mg/L nitrate +	nitrogen as nitrate-nitrogen plus nitrite-nitrogen (NO <sub>3</sub> -N + No <sub>2</sub> -N), 45
			nitrite number to reaches with	mg/L as nitrate (NO <sub>3</sub> ), 10 mg/L as nitrate-nitrogen (NO <sub>3</sub> -N), or 1
			conditional designation. Such	mg/L as nitrite-nitrogen (NO <sub>2</sub> -N) or as otherwise designated in Table
			conditional designations are not	3-8, which will be equal or lower than the general limits listed above
			recognized under federal law and are	and not to exclude the conditional designations.
			unenforceable. (page 21)	
			9. Footnote #2 states HCTP has	RWQCB staff agree and the footnotes are changed to reflect the issues
			implemented nitrification. HCTP	in the revised Staff Report.
			has implemented interim and	
			temporary facilities and process	
			revisions to "push" nitrogen	

No.	Commentator	Date	Comment	Response
			removal. It has not completed	
			construction of the capital facilities	
			required for complete and reliable	
			nitrification and denitrification.	
			10. What is the contribution of nitrate-	The septic tank issue was addressed in section 2.3.2.3, where special
			nitrite from septic tanks in the	studies was recommended to quantify the contributions of septic,
			watershed? Is this di minimis or	winter urban-runoff, agriculture, and waste treatment sources.
			unquantifiable	
			11. The mass loading value appears to	The mass loading value was calculated based on the current design
			be calculated based upon a flow of	flow which is 16.7cfs or about 10.8 MGD. The numeric targets and
			9.72 MGD. The current design flow	waste load allocations for POTWs with increasing capacity or new
			of the HCTP is 10.8 MGD, and the	POTWs will be set on a concentration basis.
			ultimate design capacity (effective	
			December 2004) is 14 MGD. The	
			same extension for oxidized nitrogen	
			loading.	
			12. The Staff Report says that median	In the Staff Report, the median concentrations and average flows were
			values were used to develop chronic	used to calculate the ammonia, nitrate, and nitrite loads from point
			criteria. Elsewhere in the Staff	and non point sources.

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			Report, it is represented that average	
			values were used. Average values	
			are correct. The Staff Report needs	
			to be clarified.	
			13. Using Moorpark as a construction	The Staff Report already acknowledges that Moorpark is a treatment
			cost basic that can be extrapolated to	plant with percolation ponds and different processes from most of the
			HCTP is incorrect and inappropriate.	other treatment plants, and that the cost estimates for other plants may
				not be specifically applicable.
05	The County	10/15/02	1. Some of the numerical targets are	The maximum daily and average monthly effluent limit are
	Sanitation		inappropriately set.	recalculated using the updated standards and implementation plan
	Districts of Los			(See attached Basin Plan Amendment, Resolution 02-011).
	Angeles County			
	(District)			
			2. The daily maximum limits for nitrite	The limits are based on the Regional Objective for Inland Surface
			and nitrate are inappropriately	Waters on page 3-11 of the Basin Plan.
			justified by a questionable link to a	
			groundwater recharge beneficial use	
			that is not applicable	
			3. The Basin Plan Amendment fails to	Load allocations for nonpoint sources was included in the Staff Report

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			include any quantifiable load	and the Basin Plan Amendment has been revised in accordance with
			allocations for nonpoint sources, nor	the Staff Report.
			does it clearly state that the TMDL	
			will be modified to reflect the	
			expected load reductions achieved	
			through the construction of TMDL	
			remedies to reduce non-point source	
			nitrogen loads, which are called for	
			in the Implementation Schedule 3	
			years after the Effective Date of the	
			TMDL	
			4. To our knowledge, studies	The Staff Report included references to general relationship between
			characterizing the limiting factors	nitrogen compound and related effects. Further explanation is added
			have not been done in the watershed,	to section 2.2 of the revised Staff Report to address the issue.
			to determine the extent to which this	
			relationship is valid	
			5. The TMDL contains seemingly	As clearly stated in the Staff Report, the margin of safety includes
			random and overlapping margins-of-	both implicit and explicit components. Future growth is discussed
			safety. For instance, the TMDL does	separately in section 2.8. The numeric targets and WLAs for POTWs

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			not account for future growth beyond	with increasing capacity or new POTWs will be set on a concentration
			current treatment plant design capacity.	basis to meet instream water quality standards.
			6. While recognizing that storm events	Staff disagree with the consequent conclusion. Water quality
			result in more assimilative capacity	objectives should be met at all times
			for waterbodies in the Calleguas	
			Creek Watershed, the TMDL doesn't	
			draw the consequent conclusion that	
			the numeric targets should not be	
			applicable during or for a period after	
			storm events	
			7. The ammonia objectives in this TMDL originate from the USEPA's 1999 Update of Ambient Water Quality Criteria for Ammonia (USEPA's Criteria Document; however, the proposed TMDL doesn't properly translate the objectives into limits.	The ammonia objectives have been revised in accordance with Regional Board Resolution 02-011. These objectives originate from US EPA's Criteria Document. The objectives are translated into effluent limits in accordance with the Implementation section of Resolution 02-011.
			8. Interim limits are calculated and prescribed for nitrite+nitrate, but not for ammonia.	The Basin Plan provides a criteria specific objective for ammonia, but not nitrate. Consequently, interim limits were provided for nitrogen but not ammonia

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			9. The daily maximum limits for nitrite and nitrate are inappropriately justified by a questionable link to a groundwater recharge (GWR) beneficial use that is not applicable.	The daily maximum limits are for nitrate and nitrite are based on water quality objectives provided in the Basin Plan, not GWR.
			10. Of the two reaches with allocations, the allocation for the Revlon Slough is 230 lb/day, compared to a current load of 870 lb/day, and the allocation for Arroyo Las Posas is 6lb.day, compared to a current load of 500 lb/day.	Allocations for non-point source are revised to concentration-based loads. The mass-based load information based on the Technical Support Document
			11. The Groundwater Recharge use Designation. A TMDL cannot be based on water quality standards that are not applicable.	Groundwater recharge (GWR) is a beneficial use designated for Inland Surface Waters, including the Calleguas Creek, in the Water Quality Control Plan, Los Angeles Region (Basin Plan). The Basin Plan defines groundwater recharge as:  "Uses of water for natural or artificial recharge of ground water for purposes of future extraction, maintenance of water quality, or halting seawater intrusion into freshwater aquifers."  The hydrodynamics of the Calleguas Creek watershed supports the GWR designation of the Calleguas Creek as an existing beneficial use.  Because the State has designated GWR as a beneficial use for the Calleguas Creek, the use becomes a federally recognized (and hence enforceable) "state water quality standard." Consequently, GWR is a

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			12. What the Staff Report fails to reflect is that the Technical Support Document (TSD) found that the Calleguas Creek Watershed essentially may not be impaired due to algae. The TSD states on page 4-20 that "The information used to develop the algae 303(d) listings did not provide any quantification of algal biomass, nor a threshold by which to measure nuisance.	Staff disagrees with CSDLAC implication that because algae quantification is not complete, the presence of algae is undocumented and there is no algae impairment. The TSD in pages 4-3 through 4-4, as well as recent observations of Calleguas Creek and Mugu Lagoon by Regional Board staff, find significant presence of algae in Calleguas Creek.
			13. Several statements in the Staff Report regarding the relationship between nitrogen compounds and other effects (i.e., algae growth and low dissolved oxygen) are contrary to the findings reported in the Technical Support Document, and should therefore be changed to agree with the TSD or be individually justified.	The statements regarding the relationship between nitrogen compounds and other effects in the Staff Report and Technical Support Document are complementary, not contradictory. The Implementation Plan provides for a watershed-wide study of algae.
			14. The allocations in the TSD were derived as if the POTW effluent represented the only flow in the watershed.	The allocations are based on a low-flow scenario with an explicit margin of safety.

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			15. The Staff Report is also proposing an additional explicit margin of safety of 10%. This is beyond what is recommended in the Technical Support Document for the TMDL and there is no justification or explanation provided for the necessity of this margin of safety.	The allocations are based on a low-flow scenario with an explicit margin of safety. The explicit MOS is based on a level of uncertainty in the underlying science linking nitrogen concentrations to their effects such as algae and organic enrichment
			16. To account for future growth beyond current treatment plan design capacity, the TMDL should only specify concentration limits.	RWQCB staff agree. See revised tentative Basin Plan Amendment.
			17. The TMDL should provide relief from daily maximum limits during storm events and for a period after until the biological processes have recovered.	Stakeholders have not provided sufficient evidence of this effect in order to Regional Board to draft findings to support this statement.
			187. The TMDL itself is a rule requiring compliance with the federal Administrative Procedures Act (APA).	The Regional Board staff concurs that the TMDL is a rule subject to formal APA requirements. However, the TMDL is being adopted pursuant to the Porter-Cologne Water Quality Control Act as a provision of state law. Neither the Clean Water Act, nor its implementing regulations, require state basin plan amendments or state-adopted TMDLs to be adopted pursuant to the federal APA. In contrast, when provisions of federal law are applicable to the states exercising in lieu authority, the Code of Federal Regulations explicitly states the federal requirement. (See, 40 C.F.R. 130.1; see also 40

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			1 <u>98</u> . POTW stands for Publicly Owned	C.F.R. 123.25 (for permitting).)  As more fully explained in an October 15, 2002, letter from Regional Board counsel to counsel for the CSDLAC the Regional Board's formal rulemaking authority is contained in Government Code section 11353. When the Regional Board exercises formal rulemaking under Government Code section 11353 and amends its Basin Plan to incorporate the TMDL, it is complying with the applicable provisions of the APA. The Office of Administrative Law will be reviewing the Basin Plan amendment and will be reviewing the amendment with particular attention to the clarity standard.  The regulatory provisions of the TMDL are contained in the Basin Plan amendment. The staff report is not regulatory in nature, although it provides the foundational support for the basin plan amendment.  RWQCB staff agrees – changes to be made on revised Staff Report
			Treatment Works, Also, "The status report indicated that Camarillo"	
			2019. The limits shown in Table 4 do not apply to the watershed per the Basin Plan. The basin Plan specifically states that the Calleguas Creek above Potrero Road, an objective of 10 mg/L for nitrite and nitrate is applicable. No individual objectives for nitrate and nitrite	Staff disagrees – the Basin Plan provides a criteria specific objectives for nitrogen compounds

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			beyond the combined objective of 10 mg/L is supported by the Basin Plan.	
			2 <u>1</u> 0. Is this percentage calculated using the updated ammonia criteria (1999).	Yes
			224. Please define what is meant by the "cascade of stirred tanks approach?"	Please refer to Peer Review's comment, item 16.
06	City of Simi Valley (City)	10/11/02	1. A time schedule for the City to comply with the ammonia waste load allocation.	POTWs including Simi Valley WQCF were aware of the compliance deadline in 1994, and were given up to 8 years to come into compliance.
			2. Ammonia Waste Load Allocations - Regional Board Staff has not clearly explained how it arrived at a proposed WLA of 1.35 mg/L for the City.	The WLAs are recalculated based on Basin Plan Amendment – Ammonia Objectives in Inland Surface Waters (Section 5. Translation of Objectives into Effluent Limits, page 10). The maximum daily effluent limitation (MDEL) and average monthly effluent limitation (AMEL) were calculated by multiplying the lowest long-term average discharge condition (LTA <sub>min</sub> ) with the MDEL and AMEL multipliers, respectively. The MDEL and AMEL multipliers can be found in Table 3-7 of the amendment using the coefficient of variation and monthly sampling frequency of ammonia in the effluent.
			3. Nitrogen compound objectives – Nitrite-N + Nitrate-N objective should be based on a flow-weighted annual average	RQWCB disagree – Nitrite-N + Nitrate-N objective should be met at all time to protect beneficial uses.
			4. The City request removal of a Waste Load allocation for Nitrite-N and inclusion of Nitrite-N + Nitrate-N limit of 10 mg/L instead.	RWQCB staff disagree. Refer to the Basin Plan, Regional Objective for Inland Surface Waters.

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			<ul> <li>6. Amendment to the Basin Plan – Since the Regional Board is in the process of amending the Basin Plan, this is the appropriate time to correct errors and omissions the exist within the Basin Plan. During the Basin Plan Planning process of 1994, in establishing the beneficial uses and corresponding numerical objectives of the Calleguas Creek Watershed, the following two major errors were made:</li> <li>The omission of footnote (a) for TDS, Chloride, Sulfate, Boron, and Nitrogen compounds, as provided in the 1975 Basin Plan.</li> </ul>	The TMDL address existing standards. These issues are not addressed in this TMDL.
			<ul> <li>Arroyo Las Posas, Designation of Potential Cold Water Reach (COLD). It is impossible for this reach to ever qualify for the designation of COLD beneficial use.</li> </ul>	
07	Camarillo Sanitary District	10/11	1. The Staff Report propose that the interim limit for nitrate (I believe the actual intent is to represent nitrate+nitrite) be set at the median of samples for total nitrogen. For our district, the interim limit is proposed at	RQWCB staff agree – The interim limits are recalculated based on the 95 <sup>th</sup> and 99 <sup>th</sup> percentile of the concentration data for ammonia, nitrate-N, and nitrite-N reported in the Calleguas Creek Characterization Study for monthly average and daily maximum interim limits. These interim limits will apply to nitrate-N + nitrite-N.

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			30.88 mg/L. The proposed interim objective is unattainable. I hope that	
			your Board will acknowledge and understand the need to set the interim	
			limits at levels to facilitate cooperation	
			and compliance by all the municipal dischargers with the proposed basin plan	
			amendment and TMDL.	